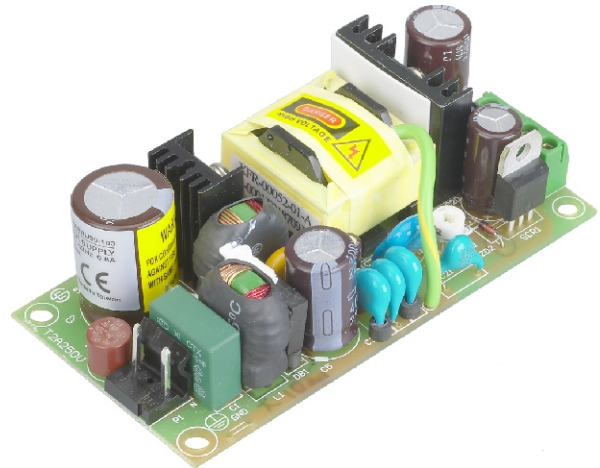


SBU30 SERIES

30W Open frame Switching Power Supplies For I.T.E.

Description:

The SBU30 series of products, open frame constructed, AC/DC switching mode power supplies provide 30 Watts of continuous output power. They are suited for use in disc drive systems, microprocess or based systems, portable equipments and many other applications. All models meet CISPR-22 class B emission Limits and are designed to comply with new CE requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- Internal EMI filter
- Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal
- Output connector mates with Lead wire
- Single and Dual Output
- Output Voltage Available From 3 VDC Thru 50 VDC
- Input Surge Current, Over Voltage and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Class I
- 2 year warranty

Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		264	VAC
fin	Input Frequency		47		63	Hz
Po	Output Power Range	Vin=90 to 264VAC	0		30	W
Vo	Output Voltage Range		See rating chart			V
Io	Output Current Range		See rating chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC			0.8	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.5	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		12	15	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		26	30	A
Eff	Efficiency	Io=Full Load, Vin=230VAC	70	80	88	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	10	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC	10	12		mS
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3	1	2	S
* Vrn	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.4	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

* Note: The Ripple & Noise which is under 3.3VDC at 2% max

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1			MHrs
Pd	Derate linearly from 100% load at 40°C to 50% load at 70°C					

SBU30 SERIES

30W Open Frame Switching Power Supplies For I.T.E.

Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			M Ω
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

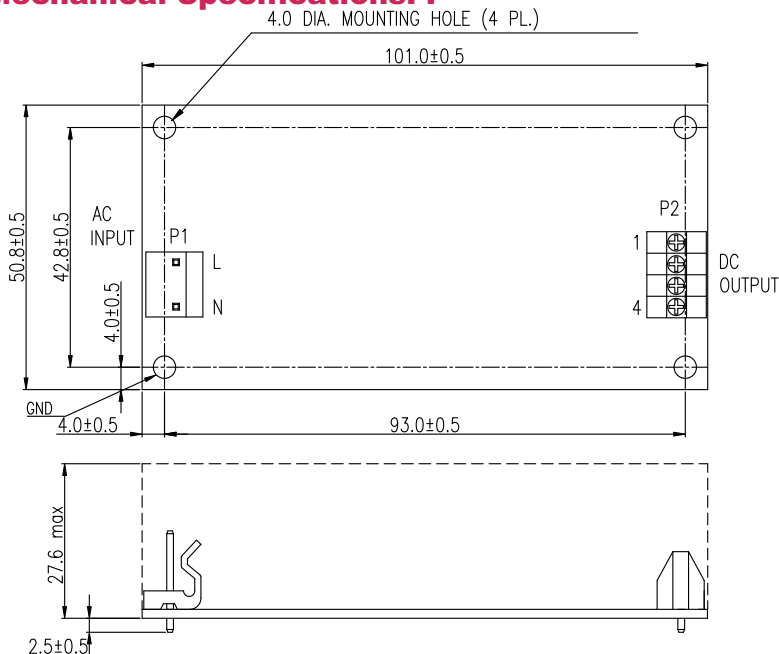
Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SBU30-101	3 ~ 5 VDC	5.00 ~ 3.00 A	7%	15W
SBU30-102	5 ~ 6 VDC	4.00 ~ 3.33 A	5%	20W
SBU30-103	6 ~ 8 VDC	4.00 ~ 3.00 A	5%	24W
SBU30-104	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30W
SBU30-105	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30W
SBU30-106	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30W
SBU30-107	16 ~ 21 VDC	1.87 ~ 1.42 A	3%	30W
SBU30-108	21 ~ 27 VDC	1.42 ~ 1.11 A	2%	30W
SBU30-109	27 ~ 33 VDC	1.11 ~ 0.90 A	2%	30W
SBU30-110	33 ~ 40 VDC	0.90 ~ 0.75 A	2%	30W
SBU30-111	40 ~ 50 VDC	0.75 ~ 0.60 A	2%	30W

Output Voltage And Current Rating Chart (Multi Output) :

Model Number	Output #1				Output #2				Output #3				Maximum Output Power
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	
SBU30-200	+3.3V	0.6A	3A	5%	+12V	0.20A	1.25A	10%					24.90W
SBU30-201	+5.0V	0.6A	3A	5%	+12V	0.25A	1.25A	10%					30.00W
SBU30-202	+5.0V	0.6A	3A	5%	+15V	0.20A	1.00A	10%					30.00W
SBU30-203	+5.0V	0.6A	3A	5%	+24V	0.12A	0.62A	10%					30.00W
SBU30-204	+3.3V	0.6A	3A	5%	+5V	0.30A	1.50A	10%					17.40W
SBU30-205	+5.0V	0.6A	3A	5%	+36V	0.10A	0.42A	10%					30.12W
SBU30-208	+9.0V	0.4A	2A	5%	-9V	0.20A	1.33A	10%					30.00W
SBU30-209	+12.0V	0.2A	2A	5%	-12V	0.05A	0.50A	10%					30.00W

Mechanical Specifications :



Note:

1. Dimensions are shown in mm.
2. Weight: 140gs approx.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal
4. Output connector mates with Lead wire